
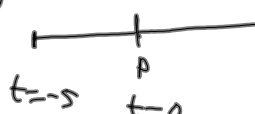


44. 45 mph

a) 2 hr 90 mi
3 hr 135 mi
10 hr 450 mi
 t 45t $y = 45t$

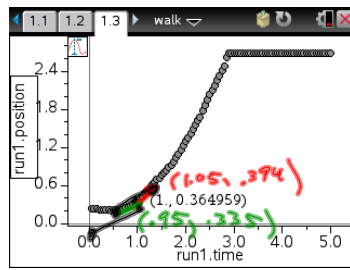
b) 45 

d) 

Aug 23-8:12 AM

2.4 Average Velocity = $\frac{y_2 - y_1}{x_2 - x_1}$

estimate Logan's velocity at $t = 1$ sec



$\frac{.394 - .364}{1.05 - 1.0} = \frac{.029}{.05} = .58 \frac{m}{s}$ rhdq

$\frac{.365 - .335}{1.0 - .95} = .6 \frac{m}{s}$ lh dq

$\frac{.394 - .335}{1.05 - .95} = .59 \frac{m}{s}$ sdq

Aug 23-9:59 AM

2.4a Average Rate of Change

Estimate the velocity at $t = 1$ using the data

right hand difference quotient (rh dq)

left hand difference quotient (lh dq)

symmetric difference quotient (sdq)

Aug 24-9:22 AM

Find the regression curve and trace as close as you can to the desired points. Use the regression curve points to estimate velocity.

Aug 26-5:59 PM

A ball is dropped from the top of a 50 ft tower. Its height above ground after t seconds is $50 - 16t^2$. How fast is it falling after 2 seconds?

Aug 24-9:34 AM

The table shows the coordinates of a moving body. Estimate the velocity at $t = 2.5$.

Aug 24-9:40 AM